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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/534,836	02/16/2006	Masaya Imoto	37404-78030	8924	
200.0	7590 03/06/2007 HORNBURG LLP		EXAMINER		
11 SOUTH MERIDIAN			CHONG, KIMBERLY		
INDIANAPOL	15, IN 46204		ART UNIT PAPER NUMBER 1635		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
31 D	AYS .	03/06/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/534,836	IMOTO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kimberly Chong	1635	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the mail of the period for the p	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOR ute, cause the application to become Al	CATION. eply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>02</u>	October 2006.		_
	nis action is non-final.		
3) Since this application is in condition for allow	vance except for formal mat	ers, prosecution as to the merits	is
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.[). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) 1-12 are subject to restriction and/o	or election requirement.		·
Application Papers			
9) The specification is objected to by the Exami	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121	(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreignal a) ☐ All b) ☐ Some * c) ☐ None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
 Certified copies of the priority docume 	ents have been received.		
Certified copies of the priority docume	ents have been received in A	application No	
3. Copies of the certified copies of the pr	•	received in this National Stage	
application from the International Bure	,		
* See the attached detailed Office action for a li	ist of the certified copies not	received.	
			-
Attachment(s)	_		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of	nformal Patent Application	
Paper No(s)/Mail Date	6)	·	

Office Action Summary

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-3, drawn to a polynucleotide comprising the nucleotide sequence show in SEQ ID NO. 2, classifiable in class 536, subclass 24.5.
- II. Claims 5-6 and 12, drawn to a method for suppressing expression of a PDGF receptor α comprising targeting mRNA of the PDGF receptor α gene using an antisense, ribozyme or maxizyme, classifiable in class 514, subclass 44. This group is subject to a species election.
- III. Claims 5-6 and 12, drawn to a method for suppressing expression of a PDGF receptor α comprising targeting mRNA of the PDGF receptor α gene using RNAi, classifiable in class 514, subclass 44.
- IV. Claims 8-11 and 13, drawn to a substance for suppressing expression of a PDGF receptor α gene wherein the substance is antisense, a ribozyme or a maxizyme, classifiable in class 536, subclass 24.5. This group is subject to a species election.
- V. Claims 8-11 and 13, drawn to a substance for suppressing expression of a PDGF receptor α wherein the substance is RNAi, classifiable in class 536, subclass 24.5.

The inventions are distinct, each from the other because of the following reasons:

Inventions group I and groups II-III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have

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different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs and not disclosed as capable of use together. For example, the invention of group I is drawn to a polynucleotide sequence of a human PDGF receptor α gene which is not disclosed as capable of use in the methods of groups II-III, drawn to a method for suppressing expression of a human PDGF receptor α gene. Furthermore restriction is proper because the subject matter is divergent and non-coextensive and a search for one would not necessarily reveal art against the other. It is therefore a burden to search these inventions in a single application.

Inventions group I and groups IV-V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs and not disclosed as capable of use together. For example, the invention of group I is drawn to a polynucleotide sequence of a human PDGF receptor α gene which is not disclosed as capable of use in the inventions of groups IV-V, drawn to a substance for suppressing the expression of a human PDGF receptor α gene. Moreover, the inventions of group I and groups IV-V are not disclosed as capable of use together. Furthermore restriction is proper because the subject matter is divergent and non-coextensive and a search for one would not necessarily reveal art against the other. It is therefore a burden to search these inventions in a single application.

these inventions in a single application.

Inventions group II and groups III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs and not disclosed as capable of use together. For example, the invention of group II is drawn to a method of suppressing expression of a PDGF receptor α using an antisense, a ribozyme or a maxizyme compound and the method of group III is drawn to a method of suppressing expression of a PDGF receptor α using a siRNA molecule. Moreover, the inventions of group II and group III are not disclosed as capable of use together. Furthermore restriction is proper because the subject matter is divergent and non-coextensive and a search for one would not necessarily reveal art against the other. It is therefore a burden to search

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Inventions of group II and groups IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the instant method can be practiced using entirely different molecules, such as a siRNA.

Inventions group II and groups V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs and not disclosed as capable of use

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together. For example, the invention of group II is drawn to a method of suppressing expression of a PDGF receptor α using an antisense, a ribozyme or a maxizyme compound, which uses entirely different molecules than the siRNA molecule of invention V and further, the inventions of group II and groups V are not disclosed as capable of use together. Furthermore restriction is proper because the subject matter is divergent and non-coextensive and a search for one would not necessarily reveal art against the other. It is therefore a burden to search these inventions in a single application.

Inventions group III and group IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs and not disclosed as capable of use together. For example, the invention of group III is drawn to a method of suppressing expression of a PDGF receptor α using a siRNA compound which uses entirely different molecule than the molecule of invention IV. Furthermore restriction is proper because the subject matter is divergent and non-coextensive and a search for one would not necessarily reveal art against the other. It is therefore a burden to search these inventions in a single application.

Inventions of group III and groups V are related as product and process of use.

The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another

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materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the instant method can be practiced using an entirely different molecule, such as an antisense compound.

Inventions IV-V are directed to related substances for suppressing the expression of a PDGF receptor α gene. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the substances are mutually exclusive because each substance comprises different compounds. For example, group IV is drawn to an antisense, a ribozyme or a maxizyme and group V is drawn to a RNAi compound which are all not obvious variants of each other and further the substances are not disclosed as capable of use together. Furthermore restriction is proper because the subject matter is divergent and non-coextensive and a search for one would not necessarily reveal art against the other. It is therefore a burden to search these inventions in a single application.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Claim 4 link(s) inventions II-III. Claim 7 link(s) inventions IV-V. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), 4 and 7. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claims 5-6 and 8-9 are directed to the following patentably distinct species of the claimed invention: antisense, ribozyme or maxizyme. Each of the claimed inhibitory agents would bind differently to a gene encoding a PDGF receptor and suppress expression of the PDGF receptor differently.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly Chong whose telephone number is 571-272-3111. The examiner can normally be reached Monday thru Friday between 7-4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Schultz can be reached at 571-272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent

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Kimberly Chong Examiner Art Unit 1635

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